From the INTERNATIONAL SEARCHING AUTHORITY								
То:				PCT				
	see form	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)				
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)				
1	icant's or agent's file form PCT/ISA/2		•	FOR FURTHER ACTION See paragraph 2 below				
1	national application T/US2004/02578		International filing date (day/month/year)	Priority date (day/month/year) 14.08.2003			
International Patent Classification (IPC) or both national classification and IPC C07K16/42, C07K16/28								
Applicant WYETH								
1. This opinion contains indications relating to the following items: □ Box No. I Basis of the opinion □ Box No. II Priority □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international application □ Box No. VIII Certain observations on the international application □ Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of malling of Form PCT/SA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/SA/220.								
3.	3. For further details, see notes to Form PCT/ISA/220.							

Name and mailing address of the ISA:

<u>)))</u>

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

Heder, A

Telephone No. +49 89 2399-7102



Form (PCT/ISA/237) (Cover Sheet) (January 2004)

EV321878429US

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

10/568255 IAP9 Rec'd PCT/PTO 13 FEB 2006

International application No. PCT/US2004/025789

	Box	No. I	Basis of the opinion				
1.	With the la	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
	ı	angua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).				
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:						
		a se	equence listing				
		tabl	e(s) related to the sequence listing				
	b. format of material:						
		in w	vritten format				
		inc	omputer readable form				
	c. time of filing/furnishing:						
		l con	tained in the international application as filed.				
		filed	together with the international application in computer readable form.				
		l furn	sished subsequently to this Authority for the purposes of search.				
3.		nas be copies	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as wriate, were furnished.				

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/025789

Box No. II Priority										
1.	□ The	☐ The following document has not been furnished:								
	I	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).								
	í]	translation of the earlie	er appl	ication whos	se priority	has been claimed (Rule 43bis.1 and 66.7(b)).			
	Cor nev	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.								
2.	☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.									
3.	Was	It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.								
4.	Additional observations, if necessary:									
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1.	Stateme					4.5				
	Novelty	(N))	Yes: No:	Claims Claims	none 1-23				
	Inventiv	e si	tep (IS)	Yes:	Claims	none				
			• • •	No:	Claims	1-23				
Industrial applicability (IA) Yes: Claims 1-23										
				No:	Claims	none				

2. Citations and explanations see separate sheet

PCT/US2004/025789

Re Item V.

- 1. The following documents are referred to in this communication:
 - D1: LIU Z. ET AL, HYBRIDOMA AND HYBRIDOMICS 22:219-228. AUG 2003
 - D2: HIRASHIMA K ET AL, J. IMMUNOLOGY 145:224-232, 1990
 - D3: ROSOK M J ET AL, J. IMMUNOLOGY 160:2353-2359, 1998
 - D4: SCOTT A M ET AL, CANCER RESEARCH 60:3254-3261, 2000
 - D5: CLARKE K ET AL, CLINICAL CANCER RESEARCH 6:3621-3628, 2000
 - D6: WO 93/24647 A
 - D7: BHATTACHARYA-CHATTERJEE M ET AL, CURRENT OPINION IN MOLECULAR THERAPEUTICS 3:63-69, 2001
- 2.1 D1 which appears to have been publicly available befor the priority date discloses the anti-idiotypic (anti-Id) antibodies LMH-1, -2, and -3 against hu3S193 monoclonal antibody (mAb), hybridomas producing said anti-Id, and uses thereof. As the technical features of all claims are present in D1, the entire claim set lacks novelty in the sense of Article 33(2) PCT in view of D1.
- 2.2 D2 discloses mAb AH-6 agains Lewis Y (LeY) antigen, and two anti-Id, namely Id-A1 and Id-B4 directed against AH-6. D2 further relates to ELISA using immobilised AH-6 to detect anti-Id antibodies. Consequently, claims 1-3, 5-7, 9, 10, 15, and 17 lack novelty in the sense of Article 33(2) PCT in view of D2. The remaining claims lack an inventive step in the sense of Article 33(3) PCT because they relate to subject-matter which is obvious in view of D2 when combined with the common general knowledge in the field at the time of filing (see e.g., D4-D7).
- 2.3 D3 discloses mAb BR96 directed agains LeY, and anti-Id 757 directed against BR96. D3 further relates to ELISA with immobilised synthetic LeY conjugated to human serum albumin (HSA). Consequently, claims 1-3, 5-7, and 9-11 lack novelty in the sense of Article 33(2) PCT in view of D3. The remaining claims lack an inventive step in the sense of Article 33(3) PCT because they are obvious in view of D3 in combination with common scientific knowledge.
- 3. The terms "hu3S193" in claims 4, 16, 19 and 22, and "LMH-1", "LMH-2", and "LMH-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/025789

3" in **claims 13 and 14**, are arbitrary designations without meaning to the skilled reader. The claims are therefore unclear in the sense of **Article 6 PCT**. Likewise, the term "HAHA response" in **claim 23** is unclear.

4. Claim 23 in its present form is directed to a method of treatment or diagnosis practiced on the human or animal body. No unified criteria exist in the PCT contracting states for the patenting of such methods, however, under Article 17(2)(a)(i) and Rule 39.1(iv) PCT, the EPO is not required to search or examine said claims. In the EPO, methods of treatment or diagnosis practiced on the human or animal body are considered non-patentable, whereas compounds or compositions for use in such methods can be patented.